

Title (en)

METHOD AND APPARATUS FOR THE DETERMINATION OF THE RELATIVE WIND DIRECTION AND/OR THE WIND SPEED AT A FIXED OR MOVING MEASURING POINT

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Application

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Priority

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Abstract (en)

[origin: US4817426A] In a method of determining the angle of an incident flow at a stationary or moving point of measurement, especially at a point of measurement on a vehicle, the pressure of the incident flow on the surface of a sphere or of a spherical segment is measured. The resulting pressure distribution on the surface is compared with a pressure distribution associated with a defined angle of incident flow and from this the angle of incident flow is calculated, or the angle of displacement of the pressure distribution curve that is found is determined relative to a desired predetermined coordinate system, or relative to a predetermined pressure distribution curve associated with a defined incident flow angle. The determination of the incident flow angle is particularly accurate and can be achieved with minimal measurement complexity in a reliable manner.

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